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## EXPEDITED PROCEDURE - EXAMINING GROUP 2187



November 6, 2002

Time: 1:35 pm  
(Minneapolis, Minn.)TO: Commissioner for Patents  
Attn: Than Vinh Nguyen  
Patent Examining Corps  
Facsimile Center  
Washington, D.C. 20231FROM: Viet V. TongOUR REF: 303.663US1TELEPHONE: (612) 373-6969FAX NUMBER (703) 746-7238


\* Please deliver to Examiner Than Vinh Nguyen in Art Unit 2187. \*

Document(s) Transmitted: Amendment & Response under 37 CFR § 1.116 (5 pgs); Clean Version of Pending Claims (7 pgs.).Total pages of this transmission, including cover letter: 13 pgs


If you do NOT receive all of the pages described above, please telephone us at 612-373-6900, or fax us at 612-339-3061.

In re. Patent Application of: Eugene H. CloudExaminer: Than Vinh NguyenSerial No.: 09/518,338Group Art Unit: 2187Filed: March 3, 2000Docket No.: 303.663US1Title: HIGH DENSITY STORAGE SCHEME FOR SEMICONDUCTOR MEMORY

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

By:   
Name: Viet V. Tong  
Reg. No.: Reg. No. 45,416

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

  
Amy J. MoriartyNovember 6, 2002  
Date of Transmission

## EXPEDITED PROCEDURE - EXAMINING GROUP 2187

S/N 09/518,338

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Eugene H. Cloud

Serial No.: 09/518,338 ✓

Filed: March 3, 2000

Title: HIGH DENSITY STORAGE SCHEME FOR SEMICONDUCTOR MEMORY

Examiner: Than Vinh Nguyen

Group Art Unit: 2187

Docket: 303.663US1

AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116

Box AF  
Commissioner for Patents  
Washington, D.C. 20231

In response to the Final Office Action mailed August 22, 2002, please amend the application as follows:

IN THE CLAIMS

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect amendment of previously pending claims 6-9, 11, 15, and 18-21. The specific amendments to individual claims are detailed in the following marked up set of claims.

6. (Amended) A memory device comprising:

an input/output buffer;

a cache memory connected to the input/output buffer;

a compression and decompression engine connected to the cache memory; and

a volatile main memory connected to the compression and decompression engine,

wherein the input/output buffer, the cache memory, the compression and decompression engine, and the volatile main memory and are located in a single chip.

7. (Amended) The memory device of claim 6 wherein the compression and decompression engine is connected between the volatile main memory and the cache memory.